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6 November 1964

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25X1	Α	MEMORANDUM FOR:	-	
		THROUGH:	LB/SS	
25X´	Α	SUBJECT:	Terms of Performance Incentives under Negotiation with , on "Sine-Wave Testing Equipment"	ų
25X^	A - [1. Further specifications are provided on the performance incentives which we outlined in a meeting with the contractor on 30 October 1964. The two incentives have since been discussed in telephone conversations with Chief, EDLB/P&DS, and further modifications are reflected in this draft.		
25X´	A [2. A statement of performance incentives as finally prepared and worded for the contract itself should be submitted to and and 25X1A for their agreement. Much of the technical detail was		
			the telephone; consequently, should have the g the final version in writing.	25X1A
		3. Propose	d Incentives for CPIF Contract:	

I. Resolution Limit

Spatial frequency capability of the instrument will be evaluated on three levels of performance:

28 1/mm minimum acceptable
64
600 1/mm Target Goal
85
1040 1/mm Incentive Goal

Test targets over 228 hmm will be GFE since such high resolution targets are not commercially available but will be available to NPIC either through an already existing contract or other sources (such as the Bureau of Standards).

II. Accuracy of MIF Measurement

The accuracy and precision of the equipment shall be demonstrated by the following procedure:

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A microscope objective of high quality _______Fluoter. 25X1A for instance) is to be placed in a finite conjugate fixture having an adjustable aperture stop. This stop shall be circular and shall be adjusted to allow the lens to operate in a diffraction-limited mode. The diffraction limit shall be a lower frequency than the highest frequency on the testing target. The fixture shall also permit longitudinal focal shifts of 0, 1/4, 1/2, 3/4, and 1 wave of defocussing. (The transfer functions of a diffraction-limited lens under these conditions of focal shift can be precisely calculated).

The sine-wave testing equipment shall be used to measure the transfer function of the lens under these conditions of focal shift. Measurements shall be made for at least two different aperture stops. Comparison of measured and calculated transfer curves shall fall within:

- 1) 10% -- which will be designated target goal
- 2) 5% -- which will be incentive goal

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Development Branch, P&DS

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